



Developing regional climate change scenarios for use in assessment of effects on human health and disease

Author(s): Giorgi F, Diffenbaugh N
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Abstract:

Climatic changes induced by anthropogenic increases in atmospheric concentrations of greenhouse gases could have substantial effects on human health and the dynamics of vector-borne diseases. In order to assess such impacts, climate change information is needed at the regional scale. In the present paper we provide a discussion of the tools and methodologies available today to produce regional climate change information along with a review of the more robust regional climate change patterns indicated by the latest-generation model simulations. We also present an analysis of the uncertainties underlying the simulation of climate change. The discussion is presented within the context of the use of climate change scenarios at the global to regional scale for studies of human health and disease impacts.

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Resource Description

Climate Scenario :

specification of climate scenario (set of assumptions about future states related to climate)

Other Climate Scenario

Other Climate Scenario: SRES A1B

Early Warning System:

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure :

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Precipitation, Temperature

Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

Climate Change and Human Health Literature Portal

Geographic Location:

resource focuses on specific location

Global or Unspecified

Health Impact:

specification of health effect or disease related to climate change exposure

Infectious Disease

Infectious Disease: Vectorborne Disease

Vectorborne Disease: General Vectorborne

Mitigation/Adaptation:

mitigation or adaptation strategy is a focus of resource

Adaptation

Model/Methodology:

type of model used or methodology development is a focus of resource

Methodology

Resource Type:

format or standard characteristic of resource

Research Article, Review

Timescale:

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment:

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content